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Remarking

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Geographical Study of Flood Affected Settlements in Jalgaon District (M.S.)

Abstract

In the present paper an attempt has been made to study the flood affected settlements of Jalgaon district. Floods are one of the most widespread and destructive natural disaster. It is an overflow of an expanse of water that submerges land. The district consist 11765 sq.km.area with a population 4229917as per 2011 census. The district having 15 tahsils with 1519 rural settlements. With the help of data available there are 265 settlements are badly affected by floods occurred in the study area. There is a need of immediate rehabilitation of flood affected settlements.

Keywords: Flood, Settlements, Rehabilitation. **Introduction**

Jalgaon district is located in the northern part of Maharashtra state. The district has occupied the total area of 11765 Sq. Kms. The district is located between 20 0 12 I North to 20025I North latitudes and 74 0 55 I East to 76 0 28 I East longitudes. (Fig. No.1) The district has occupied 3.82 % of the total area of the state and population was 4229917 as per 2011 census. The sex ratio was 360.

The district comprises 1519 settlements and 08 urban Settlements. The population of the district is unevenly distributed in 15 tahsils namely, Jalgaon, Bhusawal, Yaval, Raver, Muktainagar, Amalner, Chopda, Erandol, Parola, Chalisgaon, Jamner, Pachora, Bhadgaon, Dharangaon and Bodwad. The district having 15 tahsils with 1519 rural settlements. With the help of data available there are 265 settlements are badly affected by floods occurred in the study area. There is a need of immediate rehabilitation of flood affected settlements.

Data Base and Methodology Data Base

Data regarding flood affected settlements is obtained from secondary sources .i.e. Census and socio economic review of Dhule district

Literature Survey

The available literature on the above topic of research is scanned from various research papers, Books and Journals.

Laboratory Work

The laboratory work includes presentation of flood affected settlements in tabular form and it is presented with the help of maps. **Objective**

The main objective of the present study is to assess the impact of flood on the settlements of study area.

Study Area

Jalgaon district is located in the northern part of Maharashtra state. The district has occupied the total area of 11765 Sq. Kms. The district is located between 20 0 12 1 North to $20^{0}25^{1}$ North latitudes and 74 0 55 1 East to 76 0 28 1 East longitudes. (Fig. No.1) The district has occupied 3.82 % of the total area of the state and population was 4229917 as per 2011 census. The sex ratio was 360.

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Physiography

Jalgaon district belongs to the Deccan uplands of the Maharashtra state; it is distinguished from the rest of the upland District by westward drainage. The Tapi river passes through the centre of the District from East to West. The rest of the upland region is drained by Major River to the East. The Tapi and its tributaries drain the Jalgaon region to the west towards Arabian Sea. The landscape is typically that of the Deccan lavas

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the Deccan trap soil area in that they are mostly alluvial in origin, having been transported from the mountain ranges. The soil of the district is derived from trap rock. On the basis of depth, texture and color, soil of the region can broadly be classified into three major type's like-

- 1. Deep black cotton soil
- 2. Medium black soil
- 3. Coarse shallow soil

All the soils of this district are wholly derived from the trap or basalt. But they differ from the rest of

with residual hill ranges and broad valley, with trap

dykes introducing sharp local contrast as small chains

of hillocks. Thus the region includes varied

topographical features and landscapes consisting of

wild hills, barren plain, low lying rocky hills and bad

land topography near major river banks. The study

region is a part of Tapi Basin and hence, it is

completely drained by Tapi and her tributaries.

Jalgaon District: Location Map

Fig No.-1

Climate

The climate of the district is generally dry except in the monsoon. The year may be divided into four seasons.

- 1. The cold season (December to February).
- 2. Hot season (March to May).
- 3. Monsoon season (June to September).
- 4. Post-monsoon season (October and November). **Distribution of Fiood Affected Settlements in the Study Region**

Study area comprises fifteen tahasils, namely Jalgaon, Bhusaval, Yaval, Raver, Muktainagar, Amalner, Chopda, Erandol, Parola, Chalisgaon, Jamner, Pachora, Bhadgaon, Dharangaon, Bodwad, including Tapi, Girna, Purna, Panzara, Bori, Aner and Vaghur river system. In the present study identified 265 Settlements (Table no. 01, 02, Fig.no 02) of the 1519 settlements get prone to floods every year at the time of heavy rainfall. These settlements attracted to the researcher for the study of flood impact on such settlements. The work in the present paper is related with the flood affected settlements.

In the present study there were 265 flood affected settlements, in which 52 settlements are in Raver tehsil, this tahsil experienced problem of flood near about 44.82% settlements are flood affected on

Tapi, Suki And Ambhore river banks. 26 in Pachora tehsil situated on Girna Hivara, and Agnavati river bank. 24 in Chopda tehsil situated on Aner, Agnawati, and Tapi river bank. 27 flood affected settlements in Dharngaon tehsil situated on Anjani, Girna and Tapi river bank.26 in Bhadgaon tehsil situated on Girna River. 26in Chalisgaon tahsil situated on Girna river. 22 flood affected settlement in Amalner tahsil situated on Bori and Chikhli. 16 settlements in Muktainager tahsil situated on Tapi and purna River bank. 16 settlements in Yawal tahsil situated on Tapi, Suki, Sur and Mor River bank. 12 Settlements in parola tahsil situated on Bori river bank. 08 settlments in Jalgaon tahsil located on Girna river bank. 5 in Erondol tahsil situated on Girna river bank. 5 settlements in Busawal tahsil situated on Tapi river bank. 1 settlement in jammer tahsil situated on Kang river bank. In the study area maximum flood affected settlements are situated on Girna, Tapi and Bori river bank, respectively 83, 72 and 32. Very less number of floods affected settlements are located on, Ambhore, Agnawati, Anjani, Suki, Sur, Kang, Aner, Mor and Hivara river banks. Only Bodwad tahsil is free from flood hazard. All these settlements are located below H.F.L., at the time of flood all settlements loose their contact. Flood affected on human settlements, agriculture, transport network, animals. There is

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urgent need of rehalitation of these settlements to safer place, which is free from flood hazard. There is

also need to construct safety walls along the river

banks.

Table - 1
Jalgaon District: Flood Affected Settlements

Sr.	Tahsils	Total	Name of	Floor		Percentage
No.		Village	River	Affect		
		3		Settelment		
1	Raver	116				
			Tapi	24		
			Ambhore	09		19.62
			Suki	19	52	
2	Pachora	128				
			Girna	14		
			Hivra	08		
			Agnavati	04	26	09.81
3	Dharangaon	89	Anjani	19		
			Girna	05		
			Tapi	03	27	10.19
4	Chopda	119	Tapi	17		
			Aner	06		
			Agnawati	01	24	09.06
5	Bhadgaon	60	Girna	26	26	09.81
6	Chalisgaon	143	Girna	26	26	09.81
7	Amalnear	154	Bori	20		
			Chikhali	02	22	
8	Muktainagar	85	Tapi	16	16	06.03
9	Yawal	91	Tapi	10		
			Suki	04		
			Sur	01		
			Mor	01	16	08.30
10	Parola	116	Bori	12	12	04.53
11	Jalgaon	87	Girna	80	80	03.02
12	Erandol	65	Girna	05	05	01.88
13	Bhusawal	53	Tapi	05	05	01.88
14	Jamner	160	Kang	01	01	00.37
15	Bodwad	53			00	00.00
	Total	1519			265	100

Source – Computed by Researcher Table No 02

Jalgaon District: Flood Affected Settlements on River Banks

Sr.	Name of	Flood Affected		
No.	River	Settlements		
1	Girna	83		
2	Tapi	72		
3	Bori	32		
4	Suki	23		
5	Anjani	19		
6	Ambhora	09		
7	Hivra	08		
8	Aner	06		
9	Agnavati	04		
10	Purna	04		
11	Chikhali	02		
12	Ratnawati	01		
13	Sur	01		
14	Mor	01		
	Total	265		

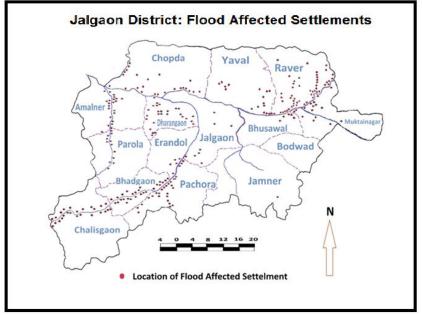
Source - Computed by Researcher

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Conclusion

It is concluded from the above study that, all flood affected settlements are below H.F.L. There is a need of immediate rehabilitation of the flood affected settlements in the area which is free from floods. It is also concluded that, if the safety walls construct along the river banks are minimize the flood intensity. 20% settlements out of all flood affected settlements are located only in Raver tahsil. Raver tahsil is highly affected by floods. Out of 265 flood affected settlements 83 settlements are located on bank of river Girana, 72 settlements are located on bank of Tapi river.

Fig no. 2 References

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